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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/806,492	07/13/2005	Jae Dong Kim	DONG3001/REF/6694	7485
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BACON & THOMAS, PLLC. 625 SLATERS LANE FOURTH FLOOR ALEXANDRIA, VA 22314			EXAMINER XAVIER, VALENTINA	
			ART UNIT 3644	PAPER NUMBER
			MAIL DATE 01/23/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/806,492

Applicant(s)

KIM, JAE DONG

Examiner

Valentina Xavier

Art Unit

3644

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 July 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 4/13/2001.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application
- ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 – 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allred (US 4,752,791) in view of Logg (US 5,616,031).

With regard to claim 1:

Allred discloses an aerial photography camera system for a helicopter comprising a camera (See Abstract) fixed on a certain position on a fuselage, a monitor (See Claim 1) for displaying images on a display (monitor – See Abstract), and a remote controller (See Claim 1).

Cameras with capabilities of displaying images on a monitor inherently have a recording device that records a frame or a sequence of frames that is displayed on a monitor since in order to be displayed on a monitor, the camera has to record the image(s) being displayed.

Allred discloses a remote control (See Claim 1), but is silent on the location of the remote control controlling the camera. However, Logg discloses a system and method of shadowing an object in motion which comprises a helicopter that uses a button on the cyclic pitch lever to remotely control a weapon (cannon, missile - See Col. 9; Lines 17 – 25). Logg also discloses a collective stick that controls the altitude of the helicopter.

It would have been obvious to one having ordinary skill in the art to use the control system included on the cyclic and collective levers to control the camera/ recording device taught by Allred since these two levers are very well known to be constantly manned by the pilot and placing control buttons of a camera on these levers would enable the pilot to easily access and position the camera remotely.

With regard to claim 2:

Allred as modified by Logg discloses the use of control buttons installed on the cyclic pitch lever. It fails to disclose the position on the cyclic pitch lever and the collective pitch lever where the control buttons (such as switching buttons and camera zoom control buttons) are located. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to place the buttons on any one of many locations such as the rear part of a grip of the cyclic pitch lever or the front part of the collective pitch lever since positioning the button in order to allow easy access for the user while operating the cyclic and collective pitch levers would decrease time of operation and increase efficiency and accuracy.

With regard to claims 1/3, 2/3, and 4:

Allred as modified by Logg is silent on installing a remote controller on the control levers of a copilot's seat. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to additionally include remote controller for the camera on the copilot's control levers since the use of auxiliary controls for a copilot are very well known in the art and doing so would provide a contingent control mechanism for the camera in case of failure in the pilot's controls.

Conclusion

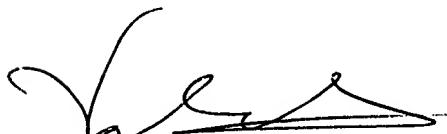
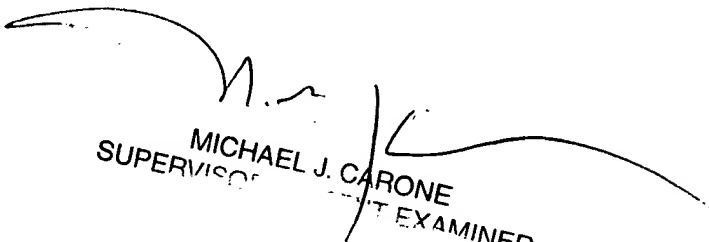
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Valentina Xavier whose telephone number is (571) 272-9853. The examiner can normally be reached on Mon - Fri 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teri Luu can be reached on (571)272-7045. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


VX
MICHAEL J. CARONE
SUPERVISOR
PATENT EXAMINER